

ABSTRACT OF THE DISCLOSURE

A rotary compressor for compressing a working fluid includes a housing having an oil sump. A stationary shaft extends into the housing and includes a longitudinal passage. The longitudinal passage has an oil inlet in fluid communication with the oil sump. A working fluid inlet receives the working fluid. A motor has a stator and a rotor. The rotor is rotatably mounted on the shaft within the housing and includes an internal compression chamber in fluid communication with the longitudinal passage. A roller is rotatably mounted on the shaft and eccentrically disposed within the compression chamber. The roller is coupled to the rotor such that rotation of the rotor rotates the roller and thereby compresses the working fluid within the compression chamber.